Project Baseline Summary Report

Data Source: **EM CDB** Report Number: **GEN-01b**

Operations/Field Office: **Idaho** Print Date: **3/10/2000**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory** HQ ID: **0166**

Project **ID-ER-103 / Idaho Chemical Processing Plant Remediation**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

PURPOSE: The purpose of this project is to complete assessment, remedial design/remedial action cleanup, and long-term monitoring and maintenance activities for the Idaho Nuclear Technology Center (INTEC), Waste Area Group 3, at the INEEL. The INTEC includes facilities for spent nuclear fuel storage, a waste solidification facility (New Waste Calciner Facility), high level liquid waste storage tanks, and related waste storage bins, remote analytical laboratories, and a coal-fired steam generation plant. Ninety-nine potential release sites divided into 14 Operable Units (OUs) based on the nature of the potential release comprise Waste Area Group 3. These sites include contaminated pits, french drains, perched and aquifer water, percolation ponds, rubble piles, spills, storage areas, tanks, an injection well, and windblown areas. Contaminants of concern include radionuclides, metals, organics, and acids. The potential release sites have been characterized and are identified as sites requiring: no action, requiring no further action, requiring remedial actions, and requiring additional characterization. All sites are included in OU 3-13. Sites requiring additional characterization are relegated to interim actions in OU 3-13 and are included in OU 3-14 for final remedial actions. OU 3-13 is, at present, entering its Remedial Design Phase and OU 3-14 is entering its Remedial Investigation/Feasibility Study Phase.

The OU 3-13 Comprehensive Remedial Investigation/Feasibility Study is complete and the Draft Record of Decision has been submitted to the Agencies. The OU 3-13 feasibility study included an evaluation of consolidating individual release site contaminated soils into a CERCLA soil and debris repository. Evaluations of options independent of the OU 3-13 feasibility study demonstrated that construction of an INEEL-wide soil repository was desirable and plans for design and construction of the INEEL CERCLA Disposal Facility (ICDF) are included in the OU 3-13 work scope.

OU 3-13 Remedial Design/Scope of Work is being prepared and is developing a remedial strategy that develops work elements according to the nature of the work and its scheduled execution. Because much of the OU 3-13 Remedial Actions occur at different times, a single OU 3-13 scope of work is being developed and Remedial Design/Remedial Action Work Plans will be developed for each separate work element.

This Project also includes the CPP-66 Fly Ash Pit that is operated in support of the coal-fired steam generation plant. The ash pit is identified as Site with only ecological risks and will be relegated to Waste Area Group 10.

Some work associated with the Waste Area Group 3 CERCLA program is beyond the scope of traditional CERCLA response activities. This project directly supports completion of regulatory requirements with enforceable milestones as defined in the INEEL tri-party (DOE, EPA, and state of Idaho) Federal Facilities Agreement/Consent Order (FFA/CO), CERCLA, and the DOE/state of Idaho Settlement Agreement.

Technology Needs:

There are no known technology needs critical to performance of the current work scope assumptions. However, if excavation, treatment, and disposal is selected as the remedial alternative for tank farm soil contamination sites, significant additional technology development may be required to support characterization, remote excavation, treatment, and disposal in coordination with similar waste management operations of the tank wastes. In addition, significant cost savings may be realized through development of more efficient characterization, treatment, and removal of buried waste

Project Description Narratives

tanks and radionuclide-in-soil characterization and separation technologies.

Seeded data in the waste module was not provided by the PBS Manager. The data source is AVS, but validation is not possible because the data is entered by waste stream, not PBS.

Project Status in FY 2006:

By 2006, all contaminated soil sites, except the tank farm and soil under buildings, will be remediated. Tank farm soil and soil under buildings will be under institutional controls to meet remedial action objectives by 2005.

Institutional controls will be in place for all Waste Area Group 3 sites by 2005. Monitoring and maintenance activities will continue beyond 2006.

An interim action remedy will be implemented at the tank farm by 2001.

Remediation of the perched water and Snake River Plain Aquifer will be continuing.

Post-2006 Project Scope:

RCRA closure of the tank farm, to be performed under a separate project, will begin in 2015 and will be completed before 2035. This is assumed to include stabilization of the tank heels, filling the voids inside all tanks, and vaults with grout, and removing all support buildings within the tank farm fence line.

Facilities that are immediately adjacent to the tank farm are scheduled for decontamination and dismantlement completion by 2044.

Remediation of the perched water and Snake River Plain Aquifer will be completed by FY2095.

Project End State

Completion of the activities contained in this PBS support the goal of deletion of the INEEL from the National Priorities List.

The cleanup process and end states described here are purely assumptions. No regulator or other stakeholder acceptance has been received.

A conceptual vision of the end state in the year 2094 for the INEEL and each of the major facility areas has been defined through a compliance reengineering effort. These end states have not been agreed upon by the regulators, stakeholders, or Tribal Nations.

Cost Baseline Comments:

The Baseline costs represented here do not include contingency for authorized work packages, but do contain contingency for planning packages. This contingency is removed upon development of detailed work packages. The INEEL Remediation Program has, since 1991, promoted use of the bottoms-up/Activity Based Costing (ABC) approach, in the development of planning estimates in its Assessment and RD/RA projects. All INEEL Remediation Program cost estimates have been developed using sound technical and planning principles, and are accompanied by basis of estimate

Project Description Narratives

documentation intended to demonstrate the rationale and specifics behind the estimates. Bottoms-up estimating, or ABC, wherein the work scope is portrayed down to the task level, is both desired and encouraged, but not always practical.

The basis of estimates include a well defined statement of work, performance measures, products required for completion, products delivered, key support activities, and known milestones, etc., for every level of the program work scope. For work scope with definable milestones and deliverables, the cost estimates are very detailed and more precise. For more subjective work scope, where it is difficult to identify a specific end-product or deliverable, detail is provided to the lowest level possible. In most cases, the clarity of the available scope and associated planning assumptions is a key consideration in determining the specific technique used to develop a particular cost estimate. The cost estimates associated with this PBS are based on completing the enforceable requirements identified in the FFA/CO. Technical resources are assumed to be available to accomplish the INEEL FFA/CO enforceable deadlines and to perform the Scope of Work for decontamination and dismantlement surveillance and maintenance as identified in the Major System Acquisition INEEL Remediation Program baseline. Planning rates used to develop these estimates were the latest contractor approved rates by the management and operating contractors as of February 1996.

Escalation rates used for FY-2001 through lifecycle are compounded 2.1% annually.

Safety & Health Hazards:

This project is presently in the decision phase to make risk based decisions regarding future clean up activities through the CERCLA process. In the Outyears, remedial actions concerning surficial soils and groundwater will be performed. Consequently the necessary safety and health functions required to maintain safe and compliant operations now and in the future are in place and operating properly. The primary hazards associated with the closure of the INTEC include: radionuclide, chemical, industrial, construction, and fire/explosion. During remedial actions and maintenance and monitoring activities there will be a number of industrial safety and industrial hygeine related hazards to address such as slips, trips, and falls; lifting; working on elevated structures; moving equipment; inhalation of dusts; temperature extremes; etc. There may also be some safety concerns associated with the areas proposed to be remediated from buried lines not identified on plant drawings.

Hazard documentation developed includes, but is not limited to, project specific health and safety plans, detailed operating procedures, standard operating procedures, job safety analyses, job hazard analyses, etc. These documents will be developed during the early stages of each project and will determine the methods, procedures, and equipment used during project implementation to reduce hazards to workers and the environment.

Safety & Health Work Performance:

The resources necessary to accomplish the planned work safely and in compliance are identified through the Health and Safety Program requirements as well as the authorization basis discussed previously. Resources allocated at the site to ensure compliance with health and safety requirements, as well as safety on the job include: radcon, safety, industrial hygiene, occupational medical, fire, emergency management, safeguards and security, performance oversight, quality, the Voluntary Protection Program, etc. Safety and health resources are planned and allocated into the appropriate category by cost center through the work breakdown structure and they are loaded into each project for each fiscal year. Institutional support, such as medical facilities and personnel, security, fire protection, etc., are funded out of the financial systems indirect labor adder, and project-specific safety and health professional support (e.g., industrial safety engineer) is identified in specific control account plans where the support is required. The average cost per FTE, burdened, is approximately $60/hour to $65/hour for each of the safety professionals identified above. Presently there are no plans to conduct full DOE operational readiness reviews although all projects will undergo a complete evaluation of their readiness to proceed with

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field activities. Applicable projects will complete unreviewed safety question determinations. Personnel are trained in Stop Work Authority, emergency preparedness procedures, health and safety plans, work plans, integrated safety management, integrated work control, conduct of operations, and conduct of maintenance, etc. Safety, radcon, health, fire, environmental, and quality personnel conduct routine inspections to ensure personnel and the environment are protected. The frequency of these inspections is dependent on the status of each particular project but generally ranges between daily to every other week. During field work the same level of ESH&Q support is required throughout the project. At this time the level of support required of the safety professionals will be reduced significantly and will only be performed during maintenance and monitoring activities. There are currently no unfunded or under funded safety, health, environmental, or quality resource requirements associated with this PBS. Upon completion of remedial actions, and the initiation of institutional controls, the level of safety and health resources required will be reduced to a minimum.

Resource levels vary from fiscal year to fiscal year depending on the extent of sampling and/or remediation activities being performed.

PBS Comments:

This project covers the assessment and remediation of the ICPP, at the INEEL. The 13 WAG 3 OUs include 95 potential release sites. Assessment of ICPP includes: characterizing OUs to determine the nature and extent of the contamination; determining and documenting unacceptable risk to human health and the environment; and determining the feasibility of various alternatives for sites that pose unacceptable risk to human health and the environment. Current planning includes completion of the OU 3-13 Comprehensive RI/FS Proposed Plan, and ROD; completion of RD/RA; and performance of long-term monitoring and maintenance activities.

Additional narrative from A.2.3

6.1.02 - Technology development is not required to perform the anticipated work scope of this project. However, if excavation, treatment, and disposal is selected as the remedial alternative for tank farm soil contamination sites, significant additional technology development may be required to support characterization, remote excavation, treatment, and disposal in coordination with similar waste management operations of the tank wastes.

6.1.03 - Technology development is required for in-situ treatment methods for sludge in buried tanks containing transuranic (TRU) isotopes, uranium, fission products, volatile organic compounds (VOCs), semi-VOCs (SVOCs), metals, and polychlorinated biphenyls (PCBs) that will satisfy RCRA land disposal restrictions (LDRs), toxicity characterization leaching procedure (TCLP), and other applicable regulations. This task is synergistic to item 2.1.11.

6.1.07 - Characterize the chemical and physical way Cs, Sr, and Co are associated with soils to determine and develop appropriate treatment technology.

Baseline Validation Narrative:

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The INEEL Environmental Management Integration Team performed a compliance and cost estimating review of all activities associated with this PBS. This PBS reflects the comments and recommendations associated with the review. The Remediation Program has, since 1991, promoted use of the bottoms up/ABC approach, in the development of planning estimates for Assessment and Remedial Design and Remedial Action projects. All INEEL Remediation Program cost estimates have been developed using sound technical and planning principles and are accompanied by basis of estimate documentation intended to demonstrate the rationale and specifics behind the estimates. Bottoms Up estimating or Activity Based Costing, wherein the work scope is portrayed down to the task level, is both desired and encouraged.
The basis of estimates include a well defined statement of work, performance measures, products required for completion, products delivered, key support activities, and known milestones, etc., for every level of the program work scope. For work scope with definable milestones and deliverables, the cost estimates are very detailed and more precise. For more subjective work scope, where it is difficult to identify a specific end-product or deliverable, detail is provided to the lowest level possible. In most cases, the clarity of the available scope and associated planning assumptions is a key consideration in determining the specific technique used to develop a particular cost estimate.

The US Army Corp of Engineers performed a review of OU 3-13's FS potential selected alternatives. The results identified changes in assumptions that could result in cost savings. Most recommendations were for details that will not be developed until the conceptual or Title design. Recommendations will be considered at the appropriate time. Since the review, several alternatives have changed and, the recommendations no longer apply. Reviews of the recommendations will continue during design to determine if cost savings exist.

General PBS Information

Project Validated? Yes **Date Validated:** 2/13/1996

Has Headquarters reviewed and approved project? No

Date Project was Added: 12/1/1997

Baseline Submission Date:

FEDPLAN Project? Yes

Drivers:

CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
Y	Y	N	N	N	Y	Y	Y

Project Identification Information

DOE Project Manager: T. Jenkins

DOE Project Manager Phone Number: 208-526-4978

DOE Project Manager Fax Number: 208-526-0598

DOE Project Manager e-mail address: JENKINTW@INEL.gov

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General PBS Information

Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	162,350	734,637	896,987	892	2,957	4,065	2,966	7,287	12,308	20,296	29,941	12,211	12,631	18,890	43,829
PBS Baseline (constant 1999 dollars)	148,292	396,228	544,520	892	2,957	4,065	2,966	7,287	11,984	19,356	27,967	11,171	11,318	16,578	37,674
PBS EM Baseline (current year dollars)	162,350	734,637	896,987	892	2,957	4,065	2,966	7,287	12,308	20,296	29,941	12,211	12,631	18,890	43,829
PBS EM Baseline (constant 1999 dollars)	148,292	396,228	544,520	892	2,957	4,065	2,966	7,287	11,984	19,356	27,967	11,171	11,318	16,578	37,674

	2007	2008	2009	2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
PBS Baseline (current year dollars)	56,512	11,902	8,364	6,788	72,091	157,794	83,509	23,368	26,551	29,458	32,684	36,263	40,234	44,640	49,528	54,951
PBS Baseline (constant 1999 dollars)	47,576	9,814	6,755	5,369	53,599	105,740	50,438	12,721	13,027	13,027	13,027	13,027	13,027	13,027	13,027	13,027
PBS EM Baseline (current year dollars)	56,512	11,902	8,364	6,788	72,091	157,794	83,509	23,368	26,551	29,458	32,684	36,263	40,234	44,640	49,528	54,951
PBS EM Baseline (constant 1999 dollars)	47,576	9,814	6,755	5,369	53,599	105,740	50,438	12,721	13,027	13,027	13,027	13,027	13,027	13,027	13,027	13,027

Baseline Escalation Rates

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1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 10/1/2046

Current Projected End Date of Project: 9/30/2070

Explanation of Project Completion Date Difference (if applicable):

Consistency with lifecycle cost module required inclusion of long term surveillance and monitoring.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	313,516	**Actual 1997 Cost:**	2,957	**Actual 1998 Cost:**	2,966
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	307,593	**Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):**			8,305
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	315,898				

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):	223,664	ICDF construction, operation, and closure plus remedial actions in the Snake River Plain Aquifer
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	539,562	

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Project Reconciliation

Additional Amount to Reconcile (+):	1
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	**539,563**

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Completed Assessments of Release Sites (50)	W3RSFA98				3/31/1999						
Completed Release Sites (12)	W3RSFC98				3/31/1999						
Completed Release Sites (15)	W3RSFC50				9/30/2050						
Completed Release Sites (23)	W3RSFC05				9/30/2005						
OU 3-08(a) Draft RI/FS SOW Submitted by DOE-ID to EPA/IDHW	UHEP002					2/15/1994	Y				
OU 3-13 Draft FS Sent by DOE-ID to EPA/IDHW for Review	UMEP003		9/30/1997	9/30/1997		7/25/1997	Y				
OU 3-13 Draft RI/FS SOW Sent by DOE-ID to EPA/IDHW for Review	UMEP005		8/31/1995	8/31/1995		7/1/1994	Y				
OU 3-13 Draft RI/FS WP Sent by DOE-ID to EPA/IDHW for Review	UMEP019		1/31/1996	1/31/1996		3/17/1995	Y				
Project Start			10/1/1996								
Project Complete			9/30/2070								
Discontinue use of existing INTEC Percolation Ponds	UMIO008		9/17/2000	12/31/2001			Y				
Issue OU 3-13 Draft RD SOW to Agencies			8/20/1999	8/20/1999			Y				
Issue OU 3-13 Draft Soils Group 3 RD SOW to Agencies											
Issue Draft ICDF RA Work Plan to Agencies											
Issue OU 3-13 Draft ROD to Agencies	UMEP001		3/30/1999	3/31/1999			Y				
Issue OU 3-14 Draft RI/FS SOW to Agencies			6/21/1999	7/31/1999			Y				

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Issue OU 3-13 Draft Soil Group 5 RA Work Plan to Agencies											
Issue OU 3-13 Draft Soil Group 6 RA Work Plan to Agencies											
OU 3-14 Issue Draft RI/FS Work Plan to Agencies			7/23/1999	7/31/1999			Y				
OU 3-14 Issue Draft RI/FS to Agencies			7/31/2006	7/31/2006			Y				
OU 3-14 Issue Draft RI/FS ROD to Agencies			5/31/2008	5/31/2008			Y				
OU 3-13 Issue Draft RD/RA Work Plan to Agencies (Group 1)			12/1/1999								
OU 3-13 Issue Draft Final RD/RA Work Plan to Agencies (Group 1)			3/1/2000								
OU 3-13 Issue RD/RA Work Plan to Agencies (Group 1)			4/1/2000								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Completed Assessments of Release Sites (50)	W3RSFA98									Y	
Completed Release Sites (12)	W3RSFC98									Y	
Completed Release Sites (15)	W3RSFC50									Y	
Completed Release Sites (23)	W3RSFC05									Y	
OU 3-08(a) Draft RI/FS SOW Submitted by DOE-ID to EPA/IDHW	UHEP002									Y	
OU 3-13 Draft FS Sent by DOE-ID to EPA/IDHW for Review	UMEP003										

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
OU 3-13 Draft RI/FS SOW Sent by DOE-ID to EPA/IDHW for Review	UMEP005										
OU 3-13 Draft RI/FS WP Sent by DOE-ID to EPA/IDHW for Review	UMEP019										
Project Start				Y							
Project Complete					Y						
Discontinue use of existing INTEC Percolation Ponds	UMIO008										
Issue OU 3-13 Draft RD SOW to Agencies											
Issue OU 3-13 Draft Soils Group 3 RD SOW to Agencies										Y	
Issue Draft ICDF RA Work Plan to Agencies										Y	
Issue OU 3-13 Draft ROD to Agencies	UMEP001										
Issue OU 3-14 Draft RI/FS SOW to Agencies											
Issue OU 3-13 Draft Soil Group 5 RA Work Plan to Agencies										Y	
Issue OU 3-13 Draft Soil Group 6 RA Work Plan to Agencies										Y	
OU 3-14 Issue Draft RI/FS Work Plan to Agencies											
OU 3-14 Issue Draft RI/FS to Agencies											
OU 3-14 Issue Draft RI/FS ROD to Agencies											

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
OU 3-13 Issue Draft RD/RA Work Plan to Agencies (Group 1)											
OU 3-13 Issue Draft Final RD/RA Work Plan to Agencies (Group 1)											
OU 3-13 Issue RD/RA Work Plan to Agencies (Group 1)											

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planne 200
RS														
Assess.	NR	44.00	14.00	58.00	1.00				44.00					
RS														
Cleanup	NR	37.00	21.00	58.00	1.00				9.00					5.(
Tech.														
Deployed	Ntd	0.00	1.00	1.00										

Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
RS													
Assess.	NR					13.00					1.00		
RS													
Cleanup	NR	5.00	23.00								1.00		
Tech.													
Deployed	Ntd									1.00			

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Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total
RS Assess.	NR								4.00	59.00
RS Cleanup	NR			18.00				2.00		59.00
Tech. Deployed	Ntd									1.00

Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
INEL	0173		CPP-01 \ CONCRETE SETTLING BASIN,VAULT,DRY WELLS E OF CPP-603	Liquid Surface Impoundments/Sumps	1999	1999	7/20/1999	2005	2005		1991	N		Y
INEL	0174		CPP-02 \ FRENCH DRAIN WEST OF CPP-603	Liquid Surface Impoundments/Sumps	1999	1999	7/20/1999	2046	2046		1991	N		Y
INEL	0175		CPP-03 \ TEMPORARY STORAGE AREA SE OF CPP-603	Spills and Leaks/Surface Spills	1999	1999	7/20/1999	2005	2005		1991	N		Y
INEL	0176		CPP-04 \ CONTAMINATED SOIL AROUND CPP-603 SETTLING TANK	Spills and Leaks/Surface Spills	1999	1999	7/20/1999	2005	2005		1991	N		Y
INEL	0177		CPP-05 \ CONTAMINATED SOIL AROUND CPP-603 SETTLING BASIN	Spills and Leaks/Surface Spills	1999	1999	7/20/1999	2005	2005		1991	N		Y
INEL	0178		CPP-06 \ TRENCH E OF CPP-603 FUEL STORAGE BASIN	Waste/Ditches	1999	1999	7/20/1999	1999	1999	7/20/1999	1991	Y		Y
INEL	0180		CPP-08 \ CPP-603 BASIN FILTER SYSTEM LINE FAILURE	Spills and Leaks/Pipeline Leaks	1999	1999	7/20/1999	2005	2005		1991	N		Y
INEL	0181		CPP-09 \ SOIL CONTAMINATION NEAR NE CORNER OF CPP-603 S BASIN	Spills and Leaks/Surface Spills	1999	1999	7/20/1999	2005	2005		1991	N		Y
INEL	0182		CPP-10 \ CPP-603 PLASTIC PIPELINE BREAK	Spills and Leaks/Pipeline Leaks	1999	1999	7/20/1999	2005	2005		1991	N		Y

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Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
INEL	0183		CPP-11 \ CPP-603 SLUDGE AND WATER RELEASE	Spills and Leaks/Surface Spills	1999	1999	7/20/1999	2005	2005		1991	N		Y
INEL	0185		CPP-13 \ PRESSURIZATION OF SOLID STORAGE CYCLONE NE OF CPP-633	Spills and Leaks/Surface Spills	1999	1999	7/20/1999	2005	2005		1991	N		Y
INEL	0186		CPP-14 \ SEWAGE TREATMENT PLANT SOUTH OF CPP-664 [CPP-14]	Liquid Surface Impoundments/Settling and Separation Basins	1999	1999	7/20/1999	2004	2004		1991	N		Y
INEL	0187		CPP-15 \ SOLVENT BURNER EAST OF CPP-605	Spills and Leaks/Surface Spills	2008	2008		2046	2046		1991	N		Y
INEL	0189		CPP-17 \ SOIL STORAGE SOUTH OF CPP PEACH BOTTOM FUEL STORAGE	Above Ground Material / Waste/Debris Piles	1999	1999	7/20/1999	1999	1999	7/20/1999	1991	Y		Y
INEL	0191		CPP-19 \ CPP-603 TO CPP-604 LINE LEAK	Spills and Leaks/Pipeline Leaks	1999	1999	7/20/1999	2005	2005		1991	N		Y
INEL	0192		CPP-20 \ CPP-604 RADIOACTIVE WASTE UNLOADING AREA	Spills and Leaks/Surface Spills	2008	2008		2046	2046		1991	N		Y
INEL	0194		CPP-22 \ PARTICULATE AIR RELEASE SOUTH OF CPP-603	Spills and Leaks/Surface Spills	1999	1999	7/20/1999	1999	1999	7/20/1999	1991	Y		Y
INEL	0195		CPP-23 \ CPP INJECTION WELL (MAH-FE-304) [CPP-23]	Waste/Wells (injection, monitoring, etc.)	2008	1999		2095			1991	N		Y
INEL	0197		CPP-25 \ CONTAMINATED SOIL TANK FARM AREA NORTH OF CPP-604	Spills and Leaks/Pipeline Leaks	2008	2008		2046	2046		1991	N		Y
INEL	0198		CPP-26 \ CONTAMINATED SOIL IN TANK FARM AREA FROM STEAM FLUSHING OPERATION	Spills and Leaks/Surface Spills	2008	2008		2046	2046		1991	N		Y
INEL	0199		CPP-27 \ CONTAMINATED SOIL IN THE TANK FARM AREA EAST OF CPP-604	Spills and Leaks/Pipeline Leaks	2008	2008		2046	2046		1991	N		Y
INEL	0200		CPP-28 \ CONTAM.SOIL IN TANK FARM AREA S. OF WM-181,VALVE BOX A6	Spills and Leaks/Pipeline Leaks	2008	2008		2046	2046		1991	N		Y

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Data Source: **EM CDB** Report Number: **GEN-01b**

Operations/Field Office: **Idaho** Print Date: **3/10/2000**

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Release Sites

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INEL	0203		CPP-31 \ CONTAM. SOIL IN TANK FARM AREA SOUTH OF TANK WM-183	Spills and Leaks/Pipeline Leaks	2008	2008		2046	2046		1991	N		Y
INEL	0204		CPP-32 \ CONTAM. SOIL IN TANK FARM AREA SW & NW OF VALVE BOX B4	Spills and Leaks/Pipeline Leaks	2008	2008		2046	2046		1991	N		Y
INEL	0205		CPP-33 \ CONTAMINATED SOIL IN TANK FARM AREA NEAR WL-102,CPP-604	Spills and Leaks/Surface Spills	2008	2008		2046	2046		1991	N		Y
INEL	0206		CPP-34 \ SOIL STORAGE AREA IN THE NE CORNER OF THE CPP	Spills and Leaks/Surface Spills	1999	1999	7/20/1999	2005	2005		1991	N		Y
INEL	0207		CPP-35 \ CPP-633 DECONTAMINATION SPILL	Spills and Leaks/Surface Spills	1999	1999	7/20/1999	2005	2005		1991	N		Y
INEL	0208		CPP-36 \ TRANSFER LINE LEAK FROM CPP-633 TO WL-102	/	1999	1999	7/20/1999	2046	2046		1991	N		Y
INEL	0209		CPP-37 \ CPP GRAVEL PITS #1 AND #2 [CPP-37]	Waste/Pits	1999			2004	2004		1991	N		Y
INEL	0211		CPP-39 \ CPP HF STORAGE TANK (YDB-105) AND DRY WELL	Liquid Surface Impoundments/Sumps	1999	1999	7/20/1999	1999	1999	7/20/1999	1991	Y		Y
INEL	0220		CPP-48 \ FRENCH DRAIN SOUTH OF CPP-633	Liquid Surface Impoundments/Sumps	1999	1999	7/20/1999	2005	1999		1991	N		Y
INEL	0230		CPP-58 \ CPP PEW EVAPORATOR OVERHEAD PIPELINE SPILLS	Spills and Leaks/Pipeline Leaks	2008	2008		2046	2046		1991	N		Y
INEL	0231		CPP-59 \ KEROSENE TANK OVERFLOW WEST OF CPP-633 [CPP-59]	Spills and Leaks/Surface Spills	1999		10/26/1994	1999		10/26/1994	1991	Y		Y
INEL	0237		CPP-65 \ CPP SEWAGE TREATMENT PLANT LAGOONS [CPP-65]	Liquid Surface Impoundments/Seepage Basins	2024	2024		2024	2024		1991	N		Y
INEL	0239		CPP-67 \ CPP PERCOLATION PONDS #1 AND #2 [CPP-67]	Liquid Surface Impoundments/Seepage Basins	1999	1999	7/20/1999	2005	2005		1991	N		Y

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Operations/Field Office: **Idaho** Print Date: **3/10/2000**

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Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
INEL	0241		CPP-69 \ ABANDONED LIQUID RAD. WASTE STORAGE TANK CPP VES-SFE-20	Tanks/Underground Storage Tanks	1999	1999	7/20/1999	2005	2005		1991	N		Y
INEL	0250		CPP-78 \ CONTAMINATED SOIL WEST OF CPP-693,EAST OF DRY FUEL STORAGE AREA	Spills and Leaks/Surface Spills	1999	1999	7/20/1999	1999	1999	7/20/1999	1991	Y		Y
INEL	0251		CPP-79 \ TANK FARM RELEASE NEAR VALVE BOX A-2	Spills and Leaks/Pipeline Leaks	2008	2008		2046	2046		1991	N		Y
INEL	0252		CPP-80 \ CPP-601 VENT TUNNEL DRAIN LEAK (VT-300)	/	1999	1999	7/20/1999	2046	2046		1991	N		Y
INEL	0255		CPP-83 \ WELL 55-06 (STRONTIUM CONTAMINATION IN PERCHED WATER)	Surface and Groundwater/Groundwater Plumes	1999	1999	7/20/1999	2095			1991	N		Y
INEL	0256		CPP-84 \ Buried Gas Cylinders	Waste/Trenches / Outfalls	1999	1999	7/20/1999	2005	2005		1994	N		Y
INEL	0257		CPP-85 \ CPP-633 Blower Corridor	Above Ground Material / Waste/Storage Yards and Pads	1999	1999	7/20/1999	1999	1999	7/20/1999	1994	Y		Y
INEL	0258		CPP-86 \ CPP-602 Waste Trench Sump	Liquid Surface Impoundments/Sumps	1999	1999	7/20/1999	2046	1999		1994	N		Y
INEL	0259		CPP-87 \ CPP-604 Waste VOG Blower Core	/	1999	1999	7/20/1999	2046	2046		1994	N		Y
INEL	0260		CPP-88 \ Radioactive Soils Map	Above Ground Material / Waste/Storage Yards and Pads	1999	1999	7/20/1999	1999	1999	7/20/1999	1994	Y		Y
INEL	0261		CPP-89 \ CPP-604/605 Tunnel Excavation	Above Ground Material / Waste/Storage Yards and Pads	1999	1999		2046	2046		1994	N		Y
INEL	0262		CPP-90 \ CPP-709 Ruthenium Detection	Above Ground Material / Waste/Storage Yards and Pads	1999	1999	7/20/1999	1999	1999	7/20/1999	1994	Y		Y

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Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
INEL	0263		CPP-91 \ CPP-633 Blower Pit	Waste/Pits	1999	1999	7/20/1999	2005	2005		1994	N		Y
INEL	0264		CPP-92 \ Soil Boxes West of CPP-1617	Above Ground Material / Waste/Storage Yards and Pads	1999	1999	7/20/1999	2005	2005		1994	N		Y
INEL	0265		CPP-93 \ Nonradioactive Calcine Disposal Trench	Waste/Trenches / Outfalls	1999	1999	7/20/1999	2005	2005		1994	N		Y
INEL	0757		CPP-94 \ Buried Cylinders East	/	1999	1999	7/20/1999	2005	2005		1997	N		
INEL	3005		CPP-95 \ ICPP Wind Blown Plume	/	1999	1999	7/20/1999	1999	1999	7/20/1999		Y		
INEL	3007		CPP-98/Tank Farm Shoring Boxes	Above Ground Material / Waste/Storage Yards and Pads	1999	2001	7/20/1999	2004	2004			N		Y
INEL	3008		CPP-99/Boxed Soil	Above Ground Material / Waste/Storage Yards and Pads	1999	2001	7/20/1999	2004	2004			N		Y
INEL	3009		CPP-97/Tank Farm Soil Stockpiles	Above Ground Material / Waste/Storage Yards and Pads	1999	2001	7/20/1999	2004	2004			N		Y
INEL	3010		CPP-96/Tank Farm Interstitial Soils	Above Ground Material / Waste/Storage Yards and Pads	2008	2008		2046	2046			N		Y
INEL	3103		CPP-44 Grease Pit South of CPP-608	Liquid Surface Impoundments/Evaporation Ponds / Pits	1999			2005	2005		1991	N		N
INEL	3105		CPP-55 Mercury contaminated area south of CPP T-15	Waste/Miscellaneous Surface Debris	1999			2005	2005			N		N
INEL	3106		CPP-48 French Drain south of CPP-633	Waste/Trenches / Outfalls	1999	2001	7/20/1999	2005	2005		1991	N		N

Technology Needs

Site Need Code: ID-6.1.02

Site Need Name: Real-time Field Instrumentation for Characterization and Monitoring Soils and Groundwater.

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02457: I7 - MLLW-Soil/Sludge	Y	N
	02432: W2.2 - LLW-Soil	Y	N
	02446: I4.1 - Treated LLW-Soil	Y	N
	02443: I2 - HAZ-Soil	Y	N
	02465: -	Y	N
	02493: T9 - HAZ-Soil	Y	N
	02486: -	Y	N
	02460: -	Y	N
	02459: -	Y	N
	02499: -	Y	N

Site Need Code: ID-6.1.03

Site Need Name: In-situ Treatment of Mixed TRU Tank Wastes.

Focus Area Work Package ID: SS-03

Focus Area Work Package: Stabilization Technologies

Focus Area: SCFA

Agree with Technology Link: N

Technology Needs

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02492: T8 - HAZ-Soil	Y	N
	02485: L3 - LLW-Soil	Y	N
	02445: I4 - LLW-Soil	Y	N
	02444: I3 - ER/D&D LLW-Soil/Rubble/Debris	Y	N
	02483: -	Y	N
	02498: W2.1 - MTRU-Soil/Rubble/Debris	Y	N
	02427: C1 - HAZ-Soil	Y	N
	02487: -	Y	N
	02480: P1.1 - MTRU-Rubble/Debris	Y	N
	02479: P1 - MTRU-Rubble/Debris	Y	N
	02428: -	Y	N

Site Need Code: ID-6.2.08

Site Need Name: Separation of Cs, Sr, and Co in Contaminated Soils

Focus Area Work Package ID: SS-07 **Focus Area Work Package:** Vadose Zone Treatment Systems

Focus Area: SCFA **Agree with Technology Link:** N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate
Segmented Gate System	0	

Technology Needs

Segmented Gate System

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02492: T8 - HAZ-Soil	Y	N
	02485: L3 - LLW-Soil	Y	N
	02491: T7.1 - LLW-Soil	Y	N
	02498: W2.1 - MTRU-Soil/Rubble/Debris	Y	N
	02470: O2.1 - MLLW-Solids	Y	N
	02469: O2 - MLLW-Liquid	Y	N
	02497: W2 - MTRU-Soil	Y	N
	02489: -	Y	N
	02464: L1 - HAZ-Soil	Y	N
	02463: T3 - MLLW-Soil	Y	N
	02484: -	Y	N

Site Need Code: ID-S.1.04

Site Need Name: Real-time Field Instrumentation for Characterization and Monitoring Soils and Groundwater.

Focus Area Work Package ID: **Focus Area Work Package:**

Focus Area: **Agree with Technology Link:** N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02457: I7 - MLLW-Soil/Sludge	Y	N
	02456: I6.1 - MLLW-Sludge	Y	N

Technology Needs

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02448: I6 - MLLW-Sludge	Y	N
	02432: W2.2 - LLW-Soil	Y	N
	02446: I4.1 - Treated LLW-Soil	Y	N
	02443: I2 - HAZ-Soil	Y	N
	02489: -	Y	N
	02465: -	Y	N
	02493: T9 - HAZ-Soil	Y	N
	02486: -	Y	N
	02460: -	Y	N
	02459: -	Y	N
	02499: -	Y	N

Site Need Code: ID-S.1.07

Site Need Name: Facilitated Transport at DOE Disposal Sites

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02496: W5 - MTRU-Sludge	Y	N

Site Need Code: ID-S.1.08

Site Need Name: Contaminant Transport in a Fractured Rock Vadose Zone

Technology Needs

Focus Area Work Package ID: **Focus Area Work Package:**

Focus Area: **Agree with Technology Link:** N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02496: W5 - MTRU-Sludge	Y	N

Site Need Code: ID-S.2.01

Site Need Name: Definition of ´Biologically Active Zones´ in Fractured Rock Environments

Focus Area Work Package ID: **Focus Area Work Package:**

Focus Area: **Agree with Technology Link:** N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02483: -	Y	N
	02496: W5 - MTRU-Sludge	Y	N

Site Need Code: ID-S.2.03

Site Need Name: Aqueous Transport of Soluble Radionuclides and Heavy Metals: Evaluation of Non-Equilibrium Processes and Native Surfaces in Porous Media

Focus Area Work Package ID: **Focus Area Work Package:**

Focus Area: **Agree with Technology Link:** N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate

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Technology Needs

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02443: I2 - HAZ-Soil	Y	N
	02459: -	Y	N
	02460: -	Y	N
	02486: -	Y	N
	02493: T9 - HAZ-Soil	Y	N
	02484: -	Y	N
	02465: -	Y	N
	02463: T3 - MLLW-Soil	Y	N
	02464: L1 - HAZ-Soil	Y	N
	02499: -	Y	N
	02497: W2 - MTRU-Soil	Y	N
	02457: I7 - MLLW-Soil/Sludge	Y	N
	02446: I4.1 - Treated LLW-Soil	Y	N
	02432: W2.2 - LLW-Soil	Y	N
	02469: O2 - MLLW-Liquid	Y	N
	02470: O2.1 - MLLW-Solids	Y	N
	02498: W2.1 - MTRU-Soil/Rubble/Debris	Y	N
	02491: T7.1 - LLW-Soil	Y	N
	02483: -	Y	N
	02485: L3 - LLW-Soil	Y	N
	02492: T8 - HAZ-Soil	Y	N

Technology Needs

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02489: -	Y	N

Site Need Code: ID-S.2.04

Site Need Name: Physics and Chemistry of Plasma Processing

Focus Area Work Package ID: MW-06

Focus Area Work Package: Monitoring and Removing Hazardous and Radioactive Contaminants from Off Gas Streams

Focus Area: MWFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02497: W2 - MTRU-Soil	Y	N
	02488: T10 - LLW-Rubble/Debris	Y	N
	00751: -	Y	N
	00747: A - Liquids	Y	N
	00784: A4 - LLW-Soil/Rubble/Debris	Y	N
	00776: A2 - HAZ-Soil	Y	N
	00780: A3 - LLW-Liquid	Y	N
	02462: I8.1 - Treated MLLW	Y	N
	02484: -	Y	N
	02426: -	Y	N
	02463: T3 - MLLW-Soil	Y	N
	02486: -	Y	N
	02489: -	Y	N

Technology Needs

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02492: T8 - HAZ-Soil	Y	N
	02487: -	Y	N
	02466: T4 - D&D MLLW-Rubble/Debris	Y	N
	02469: O2 - MLLW-Liquid	Y	N
	02470: O2.1 - MLLW-Solids	Y	N
	02491: T7.1 - LLW-Soil	Y	N
	00734: AAD - Wet Aluminum Based SNF	Y	N
	00740: AAH - INTEC 603 Metallic Sodium Bonded	Y	N
	00716: AAA - TAN Wet Stainless Steel, Zirconium, & Misc SNF	Y	N
	00720: AAB - Wet Stainless Steel, Zirconium, & Misc SNF	Y	N
	02485: L3 - LLW-Soil	Y	N
	02464: L1 - HAZ-Soil	Y	N

Site Need Code: ID-S.2.07

Site Need Name: Accurate, Representative Downhole Moisture Measurements in Unconsolidated, Consolidated, and Bedrock Materials

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02483: -	Y	N
	02496: W5 - MTRU-Sludge	Y	N

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Technology Deployments

	Deployment Year		
Deployment Status	**Planned**	**Forecast**	**Actual Date**
Technology Name: In Situ Vitrification Bottoms-up			
Potential Deployment	2020	2020	